

## **Mo-Si Alloy Development**

## **Project Lead**

Oak Ridge National Laboratory (ORNL) Oak Ridge, TN

## **Description**

The objective of this task is to develop new-generation corrosion-resistant Mo-Si alloys for use as hot components in advanced fossil energy conversion and combustion systems. The successful development of Mo-Si alloys is expected to improve the thermal efficiency and performance of fossil energy conversion systems through increased operating temperatures, and to increase the service life of hot components exposed to corrosive environments at temperatures as high as 1600 °C. This effort thus contributes directly to "Vision 21", one goal of which is to significantly reduce greenhouse emissions. The effort focuses presently on Mo-Si-B alloys containing high volume fractions of molybdenum silicides and borosilicides.

**Product Support Areas** 

Gasification Technologies	Combustion Technologies	Sequestration	Environmental & Water Resources	Advanced Turbine & Engines	Fuel Cells	
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Project: FEAA08A Code: ORNL-4B

## **Contact Information**

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